

Title (en)
CERAMIC BONDED BODY

Title (de)
KERAMISCHER GEBONDETER KÖRPER

Title (fr)
CORPS LIÉ EN CÉRAMIQUE

Publication
EP 3406583 B1 20210714 (EN)

Application
EP 17756656 A 20170224

Priority
• JP 2016035769 A 20160226
• JP 2017007163 W 20170224

Abstract (en)
[origin: EP3406583A1] A ceramic bonded body of the present disclosure includes a first member, a second member, a joining layer between the first member and the second member, and a covering layer which covers the joining layer and is located over the first member and the second member. The first member and the second member are comprised of aluminum nitride-based ceramic. The joining layer and the covering layer contain at least aluminum, calcium, yttrium, and oxygen where, in 100 mass% of all of the constituents configuring the joining layer and the covering layer, the aluminum is 21 mass% or more converted to oxides, the calcium is 21 mass% or more converted to oxides, and the sum of the aluminum and the calcium converted to oxides is 86 mass% or more. The covering layer has a content of yttrium converted to oxides larger than that of the joining layer.

IPC 8 full level
B32B 18/00 (2006.01); **C04B 35/581** (2006.01); **C04B 37/00** (2006.01)

CPC (source: EP US)
B32B 18/00 (2013.01 - EP US); **C04B 35/581** (2013.01 - EP US); **C04B 37/003** (2013.01 - US); **C04B 37/005** (2013.01 - EP US); **C04B 2235/3208** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3225** (2013.01 - EP US); **C04B 2235/3865** (2013.01 - EP US); **C04B 2235/442** (2013.01 - EP US); **C04B 2235/95** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **C04B 2237/064** (2013.01 - EP US); **C04B 2237/366** (2013.01 - EP US); **C04B 2237/58** (2013.01 - EP US); **C04B 2237/595** (2013.01 - EP US); **C04B 2237/708** (2013.01 - EP US); **C04B 2237/78** (2013.01 - US); **C04B 2237/80** (2013.01 - US); **C04B 2237/88** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3406583 A1 20181128; **EP 3406583 A4 20190109**; **EP 3406583 B1 20210714**; JP 6556323 B2 20190807; JP WO2017146222 A1 20181213; US 2019202746 A1 20190704; WO 2017146222 A1 20170831

DOCDB simple family (application)
EP 17756656 A 20170224; JP 2017007163 W 20170224; JP 2018501802 A 20170224; US 201716079562 A 20170224